

Copolymers and their use in hair treatment compositions.**Patent number:** DE3227334**Publication date:** 1984-01-26**Inventor:** STRAUB FERDINAND DR (DE); SANNER AXEL DR (DE); SEIB KARL DR (DE); LINKE WOLFGANG DR (DE)**Applicant:** BASF AG (DE)**Classification:****- international:** A61K8/81; A61Q5/06; C08F220/18; A61K8/72; A61Q5/06; C08F220/00; (IPC1-7): C08F220/16; A61K7/11; C08F220/04; C08F226/00**- european:** A61K8/81R; A61K8/81R4; A61Q5/06; C08F220/18**Application number:** DE19823227334 19820722**Priority number(s):** DE19823227334 19820722**Also published as:**

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1. A copolymer obtained by free-radical copolymerization of an alkyl acrylate or methacrylate, a neutral nitrogen-containing water-soluble monomer, a monomer containing cationic groups, and an olefinically unsaturated carboxylic acid of 3 or 4 carbon atoms, characterized in that it is obtained by free-radical copolymerization of a) 20 to 75% by weight of ethyl, n-butyl, tert.-butyl or lauryl acrylate or methacrylate or mixtures thereof, b) 5 to 50% by weight of N-vinylpyrrolidone, N-vinylcaprolactam or mixtures thereof, c) 1 to 25% by weight of N-vinylimidazole, 1-vinyl-2-methylimidazole or mixtures thereof, and d) 1 to 25% by weight of acrylic acid or methacrylic acid, and has a Fikentscher K value of from 15 to 75, measured in ethanol at 25 degrees C.

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